

FANUC



CNC GUIDE

INTELLIGENT SIMULATOR SOFTWARE

Efficient gains in productivity using PC simulation

Simple and efficient. The 2 keywords FANUC had in mind when designing a product for familiarisation with CNC controls. PC systems, an integral part of any workplace are the obvious choice for our simulation software. The CNC Guide simulates CNC operator environments for programming and operation and includes the FANUC MANUAL GUIDE *i*. FANUC development tools as used by machine builders and OEMs can be also handled in the simulation environment. CNC GUIDE runs on standard PC equipment with no need for additional hardware.

PC simulation: Feature, advantage, benefit

- The simulation emulates the CNC exactly, meaning that programs can be written, tested and optimised on the PC bringing productivity gains by working off the machine.
- CNC GUIDE fits to a classroom situation making both educational and industrial training easily implementable and resulting in better trained staff.

CNC GUIDE functionalities for Operators

The CNC GUIDE can simulate standard FANUC CNC configurations as well as CNC configurations used on real machine tools.

The shopfloor programming software MANUAL GUIDE *i* can be selected, allowing users to generate even complex parts away from the machine and where appropriate, under the guidance of a tutor. If CNC GUIDE is properly configured then the programs created can be transferred to a suitable machine tool for practical testing and demonstration.

The four different display sizes used with series 30i/31i/32i are selectable in CNC GUIDE (8.4", 10.4", 15" or 19"). Three different display sizes used with series 0i-F are selectable in CNC GUIDE (8.4", 10.4" or 15"). All the standard operator screens for diagnostics and data input (tool tables, offsets, parameters, macro variables, etc) are included in the software.



FANUC iHMI

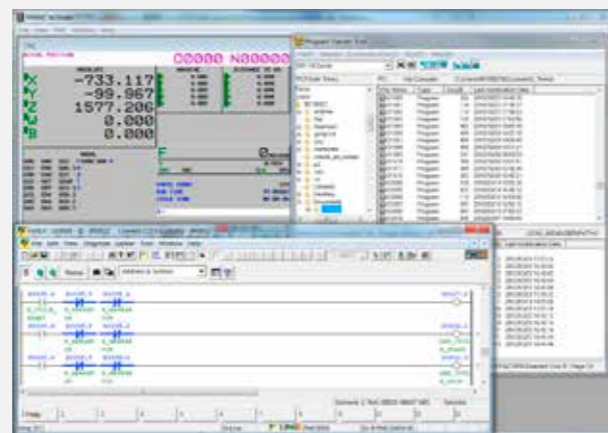
FANUC iHMI has been designed to be extremely easy to use. Intuitive menu icons, high-visibility design and animated features take the head-scratching out of complex machining operations, making accessing even the most sophisticated programs and functionalities straightforward. Despite its more intuitive layout, users will nevertheless find that it provides a familiar FANUC user experience.

CNC GUIDE functionalities for OEMs

CNC GUIDE provides all the features of operation and control as well as the ability to run and simulate the Programmable Machine Controller (PMC), to develop and debug C Language Executor, Macro Executor and FANUC PICTURE programs and integrate the features of FOCAS2 applications.

A virtual control panel reflects the status of input and output signals, which when used with the PMC programming software, FANUC LADDER III, means an engineer may write and test machine logic sequences at their desk.

It is possible to interface CNC Guide to other FANUC PC software such as: Program Transfer Tool, CNC Setting Tool and FANUC Built-in 3D Interference Check Setting Tool.



Two types of CNC GUIDE

PC with network license

CNC GUIDE is available with single or multi-seat licences (10, 20 users and unlimited users with a site license). Workstations (PCs) can run CNC GUIDE whilst connected to a license server. This is the ideal solution for a dedicated training room or development team.

CNC GUIDE Academic Package

The CNC GUIDE Academic Package is a special PC simulator software for schools and universities. It's the ideal tool for individual or group training.

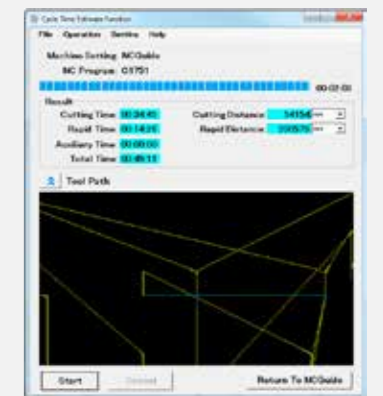
Note: It is not possible to run FOCAS2 applications with CNC GUIDE Academic Package

Product name		Note
CNC GUIDE	1 user	
	10 users	Possible for up to 10 people to use at the same time
	20 users	Possible for up to 20 people to use at the same time
	Site license	It can be used on business premises
	Update	
CNC GUIDE Education Package	Classroom/for 16 people	Possible for up to 16 people to use at the same time
	Classroom/for 32 people	Possible for up to 32 people to use at the same time
	Self-study at home/1 year	Usage period is 1 year (1 user)
	Self-study at home/3 year	Usage period is 3 year (1 user)
	Update	

CNC GUIDE functionalities for OEMs

Cycle Time Estimate Function

As add-on to CNC GUIDE, the Cycle Time Estimate Function calculates cycle time of a NC program on a PC in a short time. The function can estimate cycle time of NC programs for milling machines with high accuracy without execution on an actual machine.



PC requirements

OS	Microsoft Windows Vista Business (32bit), 7/8/8.1 Professional (32bit, 64bit), Windows 10 (32 bit, 64 bit), .NET Framework 2.0 SP1
CPU	Pentium® 4, 2.8GHz or more, Intel Core Duo 1.83GHz or higher (Core 2 Duo, Core i3, Core i5, Core i7 in case of Cycle Time Estimate Function)
Main memory	1GB RAM or more
Hard disk	1.5 GB or more
Screen resolution	1280 x 1024 (10.4" CNC screen size) 2048 x 1536 (15" CNC screen size)
DVD drive	✓
USB port	✓

Specification list CNC GUIDE

Item		Specification	
Applicable devices	30i series	Series 30i - MODEL B *2) Series 31i - MODEL B Series 31i - MODEL B5 Series 32i - MODEL B Series 31i - MODEL A	
	0i series	Series 0i - TD / MD Series 0i - TF / MF Series 0i - TF / MF Plus	
	Laser / punch press / wire cut	Series 31i - LB / PB / WB	
	CNC for transfer line	Series 35i - MODEL B	
	CNC for motion control	Power Motion i - MODEL A	
Display device type		8.4" / 10.4" / 15"	
MDI key		QWERTY / ONG	
Display mode	Picture mode	Displays actual CNC appearance	
	Window mode	CNC screen, MDI Key, Operators panel, and more at each separate window	
Display mode	CNC operation screen section *1)	24 languages (English, Japanese, German, French, Spanish, Italian, Chinese (Traditional), Chinese (Simplified), Korean, Portuguese, Dutch, Danish, Swedish, Hungarian, Czech, Polish, Russian, Turkish, Romanian, Bulgarian, Slovak, Finnish, Vietnamese, Indonesian	
	Application operation section	2 languages (English, Japanese)	
Item		CNC GUIDE	CNC GUIDE Education Package
System		Lathe / Machining	
Maximum number of paths		4 paths	1 path
Maximum number of control axes		20 axes	4 axes
Maximum spindle number		4 axes	1 axis
Maximum program capacity		8Mbytes	32Kbytes
Maximum program number		4000	63

*1) will vary depending on the model. Series 30i - when you select model B.

*2) including iHMI



Parallel simulation of CNC and PMC



Watch the video about FANUC solutions for advanced machining



Find more about FANUC software tools for development
fanuc.eu/software

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